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COLORED FERTILIZER

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Abstract not available for JP61141692

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Alerting Abstract JP A (from WPI)

Granular coloured fertiliser is obtd. by granulating a mixt. of fertiliser and pigment, or by colouring the surfaces of granular fertiliser with pigment-contg. coating agent.

Pigment may be synthetic or natural. Natural pigments are carotenoid type pigment, porphyrin type pigment, chlorophyll, etc. The fertiliser is pref. coloured blue, red, green or black to heighten the temp. of the soil.

Fertiliser components are nitrogenous fertiliser (e.g. ammonium sulphate, urea, ammonium chloride, sodium nitrate), phosphatic fertiliser (e.g. fused phosphate, calcined phosphate, potassium chloride, potassium sulphate). As coating agent, paraffin wax, phenol resin, olefin resin, etc. are used. When the coloured fertiliser is prepd. by mixing the fertiliser with pigment, addn. amt. of the pigment is 0.001-3 pts.wt. per 100 pts.wt. of fertiliser. Pigment is pref. added in form of aq. soln. The mixt. is then granulated, followed by drying. When the coloured fertiliser is prepd. by coating with pigment-contg. coating agent, the agent is prepd. by dissolving or dispersing the pigment in coating agent.

ADVANTAGE - White fertiliser reflects sunshine and prevents uprise of the soil temp. and inhibits the activities of microorganisms in the soil. The present coloured fertiliser overcomes such defects and has good appearance.